

Ch 2q23-q31

Centromere

1cM	D2S142
4cM	D2S284
4cM	D2S156/ D2S354
	D2S111
5cM	
2cM	D2S294
	D2S335
6cM	

IGE locus

29 cM

2cM	D2S324
2cM	D2S384
	D2S152
8cM	

Telomere

D2S311

FIGURE 1

1Ax00.1

NaC-340 TGTGTTCTGCCCAAGTGAGACT
NaC-341 CTTCCTGCTCTGCCCAAATGAAAT
257 bp 53.4C

1Ax00.2

NaC-342 GGCGATGTAATGTAAGGTGCTGTC
NaC-343 GTGCCTTCAGTTGCAATTGTTCAAG
259bp 54.5C

1Ax01.1

NaC-268, TTAGGAATTTCATATGCAGAATAA,
NaC-269 TGGGCCATTTTCGTCGTC
201 bp 50.9C

1Ax01.2

NaC-270 GAAAGACGCATTGCAGAAGAAAAGG,
NaC-271 CTATTGGCATGTGTTGGTGCTACA
277bp54.4C

1Ax02

NaC-45 GTGCTGGTTCTCATTAACTTAC,
NaC-46 TTCCCAACTTAATTGATATTAGC,
319 bp 49.9C

1Ax03

NaC-87, GCAGTTGGGCTTTCAATGTTAG,
NaC-88, GACACAGTTCARAATCCCRAATG,
234 bp 48.9C

1Ax04

NaC-63, TTAGGGCTACGTTCAATTGTATG,
NaC-64, AGCACTGATGGAAAACCAAACATAT,
338 bp 50.8C

1Ax05

NaC-164 AGCCCATGCAGTAATATAAATCCT
NaC-165 TCCAGGCTGATAAGCTATGTCTAA,
488 bp 52.8C

FIGURE 2

1Ax06

NaC-276, CTGTGCCCTGCCTGAGCGTATT,
NaC-277 CCAATTCTACTTTAAGGAAATG,
248bp 50.3C

1Ax07

NaC-272, AAATACTTGTGCCTTGAA,
NaC-273, GTACATACAATATACACAGATGC
240 bp 46.7C

1Ax08

NaC-89, AGGCAGCAGAACGACTTGTAAATA,
NaC-90, ATCCGGTTTAATTCATAACTCA,
267 bp 51.9C

1Ax09.2

NaC-217 GTTGAGCACCCCTAGTGAATAATA,
NaC-218 TCACACGCTCTAGACTACTTCTCT
337bp 52.7C

1Ax10a NaC-29, TGCAAATACTCAGCCCTTCAAA,
NaC-30, TTCCCCACCAGACTGCTCTTC,
239bp, 55.1C

1Ax10a

NaC-31, GCAGCAGGCAGGCTCTCA,
NaC-32, TCTCCCATGTTTAATTTCAACC,
293bp, 54.5C

1Ax10b

NaC-67, ATAATCTGCAAAATGAAATCACA,
NaC-68, ATCCGGGATGACCTACTGG
307 bp 53.7C

1Ax10b

NaC-65, GATAACGAGAGCCGTAGAGATTCC,
NaC-66, AGCCAGCCATGCCTGAACCA
282bp 56.4C

FIGURE 2 (cont'd)

1Ax10c

NaC-39, TGTTGCTTGTCAATTGCTCAA,
NaC-40, TGCACATTCCAACTCACAAA,
286bp, 50.7C

1Ax11.1

NaC-69 AAGGGTGTCTCTGTAACAAAAATG,
NaC-70, GTGATGGCCAGGTCAACAAA
269bp 50.8C

1Ax11.2

NaC-71 CTGGGACTGTTCTCCATATTGGTT,
NaC-72, TTTGCAGGGGCCAGGAAG
294 bp 53.3°C

1Ax12

NaC-41 CATTGTGGAAAATAGCATAAGC,
NaC-42, GCAAGAACCCCTGAATGTTAGAAA,
334bp, 51.2C

1Ax13.1

NaC-92 TAATGCTTTAAGAACATACACAAA,
NaC-93, CCAGCGTGGGAGTTGACAATC,
256bp, 51.1C

1Ax13.2

NaC-75 CGGCATGCAGCTCTTGGTA,
NaC-91, ATGTGCCATGCTGGTGTATTTC,
277 bp 55.6C

1Ax14.1

NaC-79 CACCCATCTTCTAACACTATGC,
NaC-80, CAGCAATTGGAGATTATTCAATT,
254 bp 50.4C

1Ax14.2

NaC-81 GCAGCCACTGATGATGATAA,
NaC-82, CTGCCAGTTCCCTATACCACTT,
269 bp 49.4C

FIGURE 2 (cont'd)

1Ax14.3

NaC-83 TACAGCAGAAATTGGGAAAGAT,
NaC-84, GTATTCATACCTACCCACACCTAT,
269 bp 50.2C

1Ax15

NaC-202 TTCTTGGCAGGCAACTTATTACC,
NaC-203 TAAGCTGCACTCCAAATGAAAGAT
233bp 53.1C

1Ax16.1

NaC-187, GGCTGAATGTTCCACAACT,
NaC-168 GTTCAACTATTGGAAACACG
277 bp, 51.4C

1Ax16.2

NaC-188, AGGCAGAGGAAAACAATGG,
NaC-189, ACAAGGTGGATAATTAAAAATG
234 bp, 50.3C

1Ax17

NaC-143, GTTTCTCTGCCCTCCTATTCC,
NaC-144, AAGCTACCTTGAACAGAGACA,
330 bp, 48.8C

1Ax18

NaC-139, AATGATGATTCTGTTATTA,
NaC-140, AATTGCCATTCTTTG,
272 bp, 46.1C

1Ax19.1

NaC-219 TTGACATCGAAGACGTGAATAATC,
NaC-220 CCATCTGGGCTCATAAACTTGTA
285bp 49.3C

1Ax20

NaC-338 CCCTTGAAAATTATATCAGTAA,
NaC-339 ATTTGGTCGTTATGCTTTATTC
230 bp 47.6C

FIGURE 2 (cont'd)

1Ax21
NaC-252, TCCAGCACTAAAATGTATGGTAAT,
NaC-253, ATTGGCAGAGAAAACACTCC
261 bp 49.8C

1Ax22
NaC-254, TTTAGCCATCCATTTCTATTT,
NaC-255, TATTTCCCCATATCATTGA
223 bp 49.1C

1Ax23.1
NaC-256 TTTGCAAGAAACTAGAAAGTC,
NaC-257 TTGATGCGTGACAAAATGG
250bp 48.3C

1Ax23.2
NaC-258 GACCAGAGTGAATATGTGACTACC,
NaC-259 CTGGGATGATCTTGAATCTAATC
246bp 49.5C

1Ax24.1
NaC-221 GCAACTCAGTTCATGGAATTGAA,
NaC-222 CTTGTTTCGTTTAAAGTAGTA
289bp 56.1C

1Ax24.2
NaC-213 CAAAGATCACCCCTGGAAGCTCAGTT,
NaC-223 TTCAAGCGCAGCTGCAAACGTGAGAT
277bp 55.8C

1Ax24.3
NaC-260 ACATGGCCTCCTACTCTTCCTA,
NaC-261 ACAGATGGGTTCCCACAGTCC
268 bp 55.3C

1Ax24.4
NaC-262 TAACGCATGATTCTTCACTGGTT,
NaC-263 ATCCCAAAGATGGCGTAGATGA
262 bp 54.9C

FIGURE 2 (cont'd)

1Ax24.5

NaC-308, TGAGAAATAGGCTAAGGACCTCTA,
NaC-309 CCTAGGGCTGGATTCC
244 bp 53.2C

1Ax24.6

NaC-310, AAGGGGTGCAAACCTGTGATTIT,
NaC-311 AGGGCCATGTGGTTGCCATAC
252 bp 53.4C

1Ax24.7

NaC-312 CTTCCGGTTATGTTTCATTCT,
NaC-313 TCTTATTAGTTGCACATTAA
278bp 48.4C

1Ax24.8

NaC-364 CAATCCTCCAAGGTCTCCTATC,
NaC-365 TTTCATCTTGCCTTCTGCTCAT
326bp 52.4C

1Ax24.9

NaC-366 CATGTCCACTGCAGCTTGTCCA,
NaC-367 TCCCCTTACACAGAGTCACAGTT
292bp 53.1C

FIGURE 2 (cont'd)

a. Glu1238Asp:

normal: GCA TTT GAA GAT ATA;
patient R10191 with IGE: GCA TTT GAC GAT ATA.

b. Ser1773Tyr:

normal: ATC ATA TcC TTC CTG;
patient R9049 with IGE: ATC ATA TmC TTC CTG; TCC>TAC

FIGURE 3

2Ax00.1 NaC-235 ATGGGTTGAATGACTTCTGACAT, NaC-236
AGGCATITCCTGTACAGGGACTAC
266bp 52.7C

2Ax00.2 NaC-237 ACAGGAAATGCCTCTTACTTC, NaC-238
TTTCCCCAAGGATTCTACTACTGT
277bp 50.6C

2Ax01 NaC-100, AGTCATGTAAC TGACACAATCAC, NaC-101,
CTTGCCTCCTGTTGGGTCTCT
241 bp 53.7C

2Ax01 NaC-11 TCCGCTTCTTACCAGGGAATC, NaC-102,
AGGCAGTGAAGGCAACTGACTAA, 259
bp 55.1C

2Ax02 NaC-96, CAGGGCAATATTATAAATAATGG, NaC-97,
TTTGGAAAATGTGTAGCTCAATAA,
289 bp 48.7C

2Ax03 NaC-43, AAGGCATGGTAGTGCATAAAAG, NaC-44,
ATGAAACATAAAGGGAGGTCAA, 201
bp, 49.3°C

2Ax04 NaC-47, AATGTGAGCTTGGCTATTGTCTCT, NaC-48,
ATAGGCTCCCACCAGTGATTAC,
213 bp, 50.9°C

2Ax05 NaC-49, AGGCCCTTATATCTCCAAGT, NaC-50,
CAACAAGGCTTCTGCACAAAAG, 241
bp, 53.9°C

2Ax05.2 NaC-110, CTTGGTGGCTTGCCCTTGAC, NaC-111, TCATGAGTGTGCCATCAGC,
223
bp, 51.1C

2Ax05.3 NaC-112, GGAAAGCTGATGGCGACACT, NaC-113,
CTGAGACATTGCCAGGTCC, 329
bp 53.0C

FIGURE 4

2Ax05.4 NaC-114, TTTTACCGTTGCTTCTTA, NaC-115,
TATCCCTTGCTCTTCATTATCT
224bp 50.9C

2Ax06.1 NaC-169, GCCGGTAAAATAGCTGTTGAGTAG, NaC-170,
GCCATTGCAAACATTATTCGTA 206bp 53.3C

2Ax06.2 NaC-171, GCGTGTGCGCTAATAG, NaC-172,
CTAAGTCACCTGATTCACATCTAA
295bp 48.0C

2Ax07 NaC-196, ACAGGGTGGCTGAAGTGTGTTA, NaC-197,
GTGGGAGGTGGCAGGTTATT, 199
bp, 52.6C

2Ax08 NaC-118, CAATTAGCAGACTGCCGTTATT, NaC-119,
TCTCTGAGTTCGGTGTTATGA
252bp 52.9C

2Ax09 NaC-120, ACCGAACCTCAAGAGAATTGCTGTA, NaC-121,
AAAGGACCGTATGCCGTTACT
334bp 52.9C

2Ax10a.1 NaC-161 TATGAATGCGCATTACTCTTG, NaC-156
TGGAGCTCAACTAGATGCTACTG
286 bp 52.1C

2Ax10a.2 NaC-13 GGTGCTGGTGGATAGGAGTTTT, NaC-162
TCCATTAAATTCTGGCATATTCTT,
316 bp 50.9C

2Ax10b.1 NaC-145 TCAGAGGGGTGCTTCTTCCACAT, NaC-14
CTTCGGCTGTCATTGTCCTCAAAG,
298bp 55.6C

2Ax10b.2 NaC-146, GCAAAGGACATTGGCTCTGAGAAT, NaC-
147, CTGCCTGCACCAGTCACAACTCT
324bp 59.4C

FIGURE 4 (cont'd)

2Ax10c NaC-190, TGGGCTTGCTGCTTCAA, NaC-191,
AGTAACGTGACGCAGGACTTTA, 218
bp 51.5C

2Ax11.1 NaC-148, CCCTGTCCTCCAGCAGATT, NaC-70
GTGATGGCCAGGTCAACAAA, 283
bp, 51.5C

2Ax11.2 NaC-149, TTTGATTGGACTGTTGTAAC, NaC-
150, AAGGCAATTATAAACTCTTCAAG
233bp 52.0C

2Ax12 NaC-159, TGGGAGTTAAATTAAAGTTGCTCAA, NaC-160,
ACATTTATGAACACTCCCAGTTA
285bp 50.4C

2Ax13.1 NaC-239 ATTAACACTGTTCTGCTTTAT, NaC-240
GTGCCAGCGTGGAGTTC 239 bp
51.1C

2Ax13.2 NaC-241 GTGGGGCTCTAGGAAACCT, NaC-242
TTAATGAAAATGAGGAAAATGTT 324
bp 53.7C

2Ax14.1 NaC-134, GACCAAGCATTTCATTTCATTTCATTTC, NaC-135,
AGTGGCAGCAAGATTGTCA 234
bp, 49.6C

2Ax14.2 NaC-136, GGCCTTGCTTGAGTTCC, NaC-137,
GGTCTTGCTTATTCATGGTG, 257
bp, 51.1C

2Ax14.3 NaC-266, TTAAACCGCTTGAAGATCTAAATA, NaC-267
TATACACCAAAATATCTCCTTAT
319bp 48.5C

2Ax15 NaC-314 GGGCACACCTAATTAAATTTCATT, NaC-315
AAAGAGGATACTCAAGACCACATA
(247bp) 51.5C

FIGURE 4 (cont'd)

2Ax16 NaC-344 CCCACCAACACAAATATACTAAT, NaC-345
TGAAGGGAAAGGGAAAAGATT
283bp 52.2C

2Ax17 NaC-346 TCCAGCCTTAGGCACCTGATAA NaC-347
ATAAAAGCAGCAAAGTGCAGCATAAC 310bp
52.4C

2Ax18 NaC-348 AAGGCTGAACTGTGTAGACATTTC NaC-349
TGACATTCCATGGTACAAAGTGT
262bp 52.2C

2Ax19.1 NaC-350 TTTGTTGTTGGCTTTCACTTAT NaC-351
CCACCTGGCAGTTGATTG 268bp 51.9C

2Ax19.2 NaC-352 TAAGCGTGGTCAACAACTACAGT NaC-353
ATTCTTGCCAGCATTATTGTC
260bp 50.2C

2Ax20 NaC-354 CAAAACATTGCCCAAAAG NaC-355
TCAAAACTAAACAATTCCCTCTAA 239 bp 48.1C

2Ax21 NaC-306, GATAATTAAAAACTCACTGATGTA, NaC-307
GGAGGCTAAAGGAAAGAGTATG
288bp 46.6C

2Ax22 NaC-356 ATTTTATAGCCAGCAAAGAACAC NaC-357
CTAGAAATTGGGCTGTGAA 230 bp 49.6C

2Ax23.1 NaC-358 CTGCTTGTGACCTAACAGCAAGTT NaC-359
GTGACCATGTTAACCGAGATGAGG
290bp 51.4C

2Ax23.2 NaC-360 GGAATGGCTTGATTTGTAACC NaC-361
TCCTTAACTGAATAAAAGCACCTC
290bp 51.6C

2Ax24.1 NaC-207 TGGAACACCCATCAAAGAAGATACT, NaC-208
GTGGGAGTCCTGTTGACACAAAC
278bp 52.8C

FIGURE 4 (cont'd)

2Ax24.2 NaC-209 AGCGATTATGGCATCAAAC, NaC-210
ACGTGGTGGAAAGGCGTCATA 270 bp,
52.9C

2Ax24.3 NaC-211 GCGACCCAGTTATAGAGTTGCC, NaC-212
CTTGTGCGTTAACGTGGTC
289bp 56.1C

2Ax24.4 NaC-213 CAAAGATCACCCCTGGAAGCTCAGTT, NaC-214
ATCCAGGGCATCTGCAAAATCAGAA
277bp 55.8C

2Ax24.5 NaC-215 TGCCTATGTTAAGAGGGAAAGTTGGG, NaC-216
ATGACCGCGATGTACATGTTAG
279bp 55.3C

2Ax24.6 NaC-278 TCAATTGTTACAGCCCGTGATG, NaC-279
TTTATACAAAGGCAGACAAACAT
302bp 52.0C

2Ax24.7 NaC-280 AGGCGTAATGGCTACTCAGACGA, NaC-281
GTAATCCCTCTCCCCAACATAAAC
251bp 53.8C

2Ax24.8 NaC-282 TTTGATTACGGGTTGTTACTCTTA, NaC-283
TTCTATGGAACATTACAGGCACATT 294bp 52.1C

2Ax24.9 NaC-284 TAATGTGCCTGAAATGTTCCATAGA, NaC-285
CAGGCTTCTAGAAAGGACTGATAGG 264bp 50.6C

2Ax24.10 NaC-286 GTCCCAGCAGCATGACTATC, NaC-287
CCCACTGGGTAAAATTACTAAC 249bp
49.4C

2Ax24.11 NaC-288 TAGCCATCTTCTGCTCTGGT, NaC-289
TGGCTTCCATATTAGACTTCTG
307bp 51.3C

2Ax24.12 NaC-290 TCTTGCCTATGCTGCTGTATCTTA, NaC-291
AGTCGGGCTTTCATCATTGAG
207bp 51.8C

FIGURE 4 (cont'd)

2Ax24.13 NaC-292 TTCTTCATGTCATTAAGCAATAGG, NaC-293
TTCAATTAAAAGTGCTAGGAACA
299bp49.4C

2Ax24.14 NaC-294 CTTCAGGTGGATGTCACAGTCACTA NaC-295
ATTCAAGCAATGCCAAGAGTATCA
263bp51.5C

2Ax24.15 NaC-296 CTITCAATAGTAATGCCTTATCAT NaC-297
TCCTGCATGCATTACCAAC
348bp 49.6C

2Ax24.16 NaC-362 CTGTTCACATTTGTAAAACATAAT, NaC-263
ATCCCAAAGATGGCGTAGATGA
309 bp 50.8C

2Ax24.17 NaC-325 CACGCTGCTTTGCTTG, NaC-363
GATCTTGTCAGGGTCACAGTCT 269
bp 54.0C

FIGURE 4 (cont'd)

a. Lys908Arg:

normal: TAC AAA GAA;
9782 (Patient with IGE): TAC AGA GAA;

b. leu768val, in individuals 8197, 9062 et 9822 (all IGE patients).

FIGURE 5

3Ax00a.1 NaC-390 TGTGTCCGCCAGTAGATGG, NaC-391
TTTTGACCACAGAGGTTACAA 233bp
51.4C

3Ax00a.2 NaC-392 GAAGCGGAGGCATAAGCAGA, NaC-393
GGTGCAGATAATGAAATGTTTGT
253bp 51.3C

3Ax00b NaC-394 CACCCCTATGCCAAATGTCAAAGA NaC-395
CAAAAACAAACTTATAACCCAGAAG
293bp 51.6C

3Ax00c NaC-396 CAAATATTGGCAAACCCCTAAT, NaC-397
AAGGTGCCATCACAAAATCAT 225bp
50.7C

3Ax01.1 NaC-51 ATCGCTTGCTTCCTAACTCTTGT, NaC-52
AAGTCACTATTGGCTTGGTG,
260bp, 53.1C

3Ax01.2 NaC-53 AGAAGCCAAAAAGGAACAAGATA, NaC-54
GGCCCAGAAAAGTATATTACAGTT,
231bp, 50.8C

3Ax02 NaC-85, TCCTTAAATAAGCCCATGTCTAAT, NaC-86,
TCTCAAAGAAATTACAGATACT,
273bp, 47.3C

3Ax03 NaC-27, AATGGCCATGGTAACCTACTAACCA, NaC-28,
CAGGCTATAACCCACAAGGAGATT,
212 bp 51.8C

3Ax04 NaC-94, TGTAAATTGGCTTGGATGTT, NaC-95,
TCACTCCTTGCGCTTATCAA, 198 bp
50.8C

3Ax05.1 NaC-247, AGGGCTCTATGTGCCAAACC, NaC-248,
AGGGGCCTACTACCTTACACCCAG 213
bp 52.2C

FIGURE 6

3Ax05.2 NaC-249 TGTAAATCCCAGGTAAAGAAGAAAC, NaC-250
TACCGGGATGAACTGTAATAATAA
304 bp 51.8C

3Ax06.1 NaC-192, TTCTGGCACTCTCCTCAGGTAAAC, NaC-193, GTCCCATTGAAATCCATTGTGC,
261bp 55.4C

3Ax06.2 NaC-194, GGCCCCAAGCGATTCTG, NaC-195,
TGTACACCCACAGTCTCAACTATT,
209bp, 50.3C

3Ax07 NaC-204, ACAGCCACCTTGTAATAA, NaC-205,
TTTTCGCAAAGAGAGTTCTAT
220 bp, 46.6C

3Ax08 NaC-98, AAACTGACCCCTACCTCCATTCTC, NaC-99,
ACTCAGCCTATGCTTTCAATTCA,
247 bp 53.2C

3Ax09 NaC-37 CAGATATTATTTGGGGACATTAT, NaC-38
AAATCTTGCKTTATCACTCAGT, 295
bp, 52.0C

3Ax10a.1 NaC-198 TAGTGCCTGGCTTGTATTATGAC, NaC-199
CGGATTGGAAAGCTGTCTCT
225 bp 54.3C

3Ax10a.2 NaC-200 AGAGCACCTTGAAGGAAACAAACAA, NaC-274,
TCCCTCAACTGAAGTACAGATAGT, 253 bp 51.2C

3Ax10b NaC-33, ATAATTGCCTTCTTCCCCTACCC, NaC-34,
AAGCCCTGGCACCATCCTG, 301
bp, 56.2 °C

3Ax10c NaC-35, _TTTGCAGAAATGCTATGT, NaC-36,
CTGGGTAAACAGACTTCAGTAAT, 303
bp, 51.4 °C

3Ax11.1 NaC-122, ATGGGATTGTCTCTCAAGTTCT, NaC-123,
GATGGCAAGATCAACAAATGGA
294bp 50.3C

FIGURE 6 (cont'd)

3Ax11.2 NaC-124, CTTGATCTGGACTGCTGTGATG, NaC-125,
AGGATATAATTTTGGTTCAACA
284bp 51.5C

3Ax12 NaC-61, TTTTCAGTGCTCTGATAGTAGTG, NaC-62,
GTGCCAATGAGCGACAGG, 254 bp,
50.7°C

3Ax13.1 NaC-73, CCACGTGTGGTTCTATGATACC, NaC-74,
ACCGTGGGAGCGTACAGTCA 298 bp
52.3C

3Ax13.2 NaC-75, CGGCATGCAGCTTTGGTA, NaC-76,
TGGCCACGTTCTAGCTACTGTC 291
bp 55.9C

3Ax14.1 NaC-55, GAGTTCCCTTTAGGCTGTTATT, NaC-56
TCTTATTGCCTTCATGGATTCTA,
285bp, 50.5C

3Ax14.2 NaC-57, TGAAAAATAAGATGCGGGAGTG, NaC-58,
GTGAGGCTGGGTTGTTATG, 247
bp, 51.7C

3Ax14.3 NaC-59, GAGATGGAATGGAACCACCA, NaC-60,
TTCGATAATGCATATAAGCACAA, 297
bp, 51.7C

3Ax15 NaC-318 AAGGGGAAAATCACATCTT, NaC-319
TTAAATGAGGCATATTCACTCTCC 235bp
51.8C

3Ax16 NaC-116, GGAAGTGGAGTGGGAAGG, NaC-117,
ATTCTGCCAATATGCATTCACT, 271
bp, 51.1C

3Ax17 NaC-157, TTCTTTGTACTCACTATTACTAA, NaC-
158, AAACCTGCCTTTAAAAACAAT
317bp 46.6C

3Ax18 NaC-374 TACCACACCCTATACCTTCAGTCA, NaC-375
GAGTATGGCACCCCTTCTATCTA
275bp 51.4C

FIGURE 6 (cont'd)

3Ax19.1 NaC-386 GCTATGTTCCCCTCGCTGTCT, NaC-387
TGCTTGCCAAGAGCCTGAC
231bp 53.6C

3Ax19.2 NaC-388 GCTGGCAAGTTCTACCACTGTG, NaC-389
CAAACGAAGAACATCAGGGAAATA
247bp 53.0C

3Ax20 NaC-376 TTCACAATATTGTACAAAAAGTTA, NaC-377
ATTACCACCAATATTCAACCATAAG
230 bp 46.4C

3Ax21 NaC-378 TCAGGGTAAGGCAAAAGTAGCAC, NaC-379
GAACCCCAGAACATGAAGAAAGGTAA 294
bp 50.2C

3Ax22 NaC-380 TTTGTGAAAGTACTATTGGAACAC, NaC-381
ACGCATGGCTTGAAACAT 204bp 49.6C

3Ax23.1 NaC-382 CCCGTATGTGGAAGGGCTTAT, NaC-383
CTAGGTTGATCCGGGACAAAACTA
246bp 52.9C

3Ax23.2 NaC-384 AACGGATGACCAGGGCAAATAC, NaC-385
CTAGAAGGTCTGGGGCAACTG
234bp 54.8C

3Ax24.1 NaC-317 AAGCCATCATGTAAAGTAAAAAG, NaC-320
ATCCCAAAGATGGCATAGATA 274
bp, 52.5C

3Ax24.2 NaC-325 CACGCTGCTTTGCTTG, NaC-326 TGAGCTGCCAGGGTGAATTG
282 bp 54.9C

3Ax24.3 NaC-327 TTGCTAGCACCTATTCTTAATAGTGC NaC-328
CCAGGGCAGCTGAAAATCAGAG
318bp 54.2C

3Ax24.4 NaC-329 CCCGATGCGACCCAGTTA, NaC-330 TGGAGGGTTGATGCCATA
250 bp, 55.2C

FIGURE 6 (cont'd)

3Ax24.5 NaC-331 GATGGATGCCCTTCGAATACAGA, NaC-332
TTCCCATTTAGTTGTCAATAATC
258 bp 50.6C

3Ax24.6 NaC-321 AAGGGGAGGATTGACTTACCTAT, NaC-333
TTGGCATGGACCTCCTCTTGA 302
bp 51.5C

FIGURE 6 (cont'd)

a. Asn43DEL:

9706 (allele 1; IGE patient): CAA GAT AAT GAT GAT GAG ;

9632 (allele 2; patient has IGE): CAA GAT --- GAT GAT GAG ;

allele 1 = 131/146 (0.90);

allele 2= 15/146 (0.10);

for IGE patients: homozygotes (22): 3958, 9632; heterozygotes (12): 9049, 9152, 9649, 9710, 9896, 10069, 10191, 10213, 9993, 10009, 10256 (note that 2 patients are homozygous for the rare allele; all patients have IGE); in controls: allele 1 = 45/154 (0.94); allele 2 = 9/154 (0.06) and no 22 homozygotes found.

b. normal: tggtgtaaggtag,

10670 (IGE patient): tggtataaggtag

c. normal: ccccttatatctccaac,

10250 (IGE patient): ccccttatayctccaac;

d. Val1035Ile:

normal: AAA TAC GTA ATC GAT,

9269 (IGE patient): AAA TAC RTA ATC GAT; GTA>ATA = Val>Ile.

FIGURE 7